

**SUPER-BRAOD-BAND ACHROMATIC LENS**

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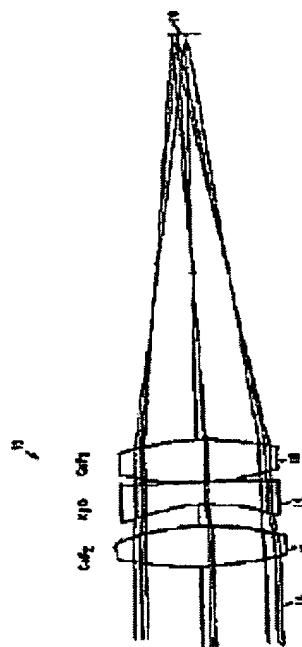
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**Abstract of JP4234013**

**PURPOSE:** To provide an achromatic optical system which is simultaneously corrected for chromatic aberrations and other aberrations in a wide and long band from visible light to near IR ray region, i.e., from 0.5 to 5 microns.

**CONSTITUTION:** A lens system 10 is composed as a Cook's triplet optically aligned with a first positive (convergent) element 12 formed of calcium fluoride, a second negative (divergent) element 14 formed of magnesium oxide and a third position (convergent) element 16 formed of calcium fluoride or as a wide- band triplet consisting of the negative element formed of the magnesium oxide of the first element and the third element and the positive element formed of the calcium fluoride of the second element.



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